

DICOM Correction Proposal

STATUS	Final Text
Date of Last Update	2012/03/22
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Correction Number	CP-1183
Log Summary: Clarify meanings for UCUM codes	
Name of Standard	PS 3.16 2011
Rationale for Correction	Clarify use of UCUM preferred print (display) strings for Code Meaning.
Correction Wording:	

<i>PS 3.16 Annex B</i>

7.2.2 Units Of Measurement

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- the Code Meaning for other than UCUM unity may be one of **three classes of synonyms the following:**
 - **the “print” value specified in UCUM (e.g., “mmHg” for Code Value mm[Hg])**
 - the same string as sent in the Code Value ~~when an abbreviation is required~~ (e.g. “ml/s”)
 - constructed from the “names” of individual components using the Americanized form of name (e.g. “milliliters/second”)
 - constructed from the “names” of individual components using the European form of name (e.g. “millilitres/second”)
- In the case of UCUM unity (“1”, or curly ~~bracket~~ **braces** expression) it is forbidden to use “1” as a Code Meaning. Annex G provides Code Meanings for a Code Value (0008,0100) of 1. A Template or Context Group may constrain the Code Meaning according to the following rules:
 - UCUM default unit 1 shall use one of the Code Meaning synonyms specified in Annex G
 - ratios of identically dimensioned values may use ({ratio}, UCUM, “ratio“)
 - unitless numeric scores may use ({M:N}, UCUM, “range: M:N”) to specify the minimum and maximum value, for example, ({0:10}, UCUM, “range: 0:10”)
 - counts using UCUM annotation shall always use the text within the curly braces as the Code Meaning, for example, ({masses}, UCUM, “masses”)

- compositions of a curly braces expression with other UCUM values may use a conventional clinical representation, for example, {H.B.}/min, UCUM, "BPM"